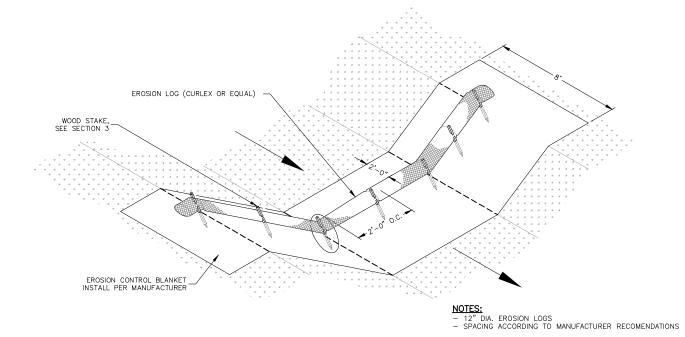
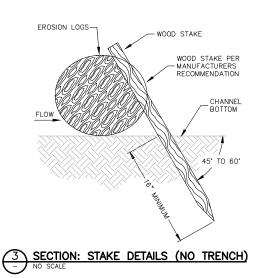
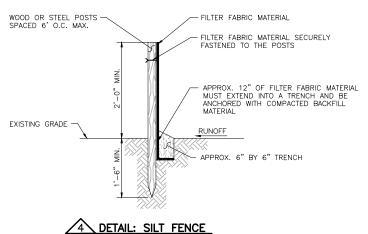
SECTION: EROSION LOGS (NO BLANKET)



SECTION: EROSION LOGS (WITH BLANKET)

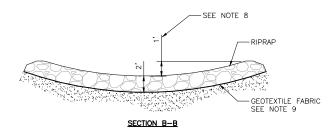
NO SCALE

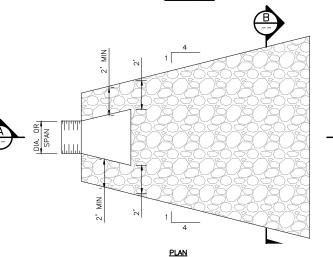


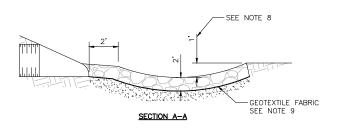




- 1. WORK SHALL BE PERFORMED IN ACCORDANCE TO STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
- 2. SILT FENCE AND EROSION CONTROL FEATURES MUST BE INSTALLED PRIOR TO SOIL DISTURBANCE.
- 3. SILT FENCE OR OTHER APPROVED BMP MUST BE PLACED TO INTERCEPT RUNOFF FROM TURBINE AREAS, COLLECTION SYSTEM, TRANSMISSION LINES, SUBSTATIONS AND DISTURBED AREAS THAT ARE LOCATED WITHIN 200 FEET OF ANY SURFACE WATER.
- 4. EROSION LOGS OR CERTIFIED WEED FREE STRAW BALES MAY BE USED AS ALTERNATIVES TO SILT FENCE.
- 5. REVEGETATION AND RESTORATION ACTIVITIES MUST BE CONDUCTED IN ACCORDANCE WITH THE SITE SPECIFIC RESTORATION AND WEED MANAGEMENT PLAN (ATTACHMENT H OF SWPPP).
- 6. DITCH PROTECTION: SILT FENCE, CHECK DAMS OR EROSION LOGS SHALL BE IMPLEMENTED ALONG ROADS AND ADJACENT TO SURFACE WATER AND DRY WASH CROSSINGS AS NECESSARY TO PREVENT EROSION IN DITCHES AND TRANSFER OF SEDIMENT.
- 7. REMOVE SOIL TRACKED ONTO IMPERVIOUS ROADS DAILY.
- 8. FOR PIPES GREATER THAN OR EQUAL TO 30", USE 1.5'.
- 9. THE FABRIC SHOULD COVER THE AREA OF THE RIPRAP AND EXTEND UNDER THE CULVERT APRON 3 FEET.







RIPRAP QUANTITIES AT CULVERT OUTLETS

DIA. OF PIPE (INCHES)	L (FEET)	RIPRAP (CU. YD.)		
18	10	9.4		
24	12	13.0		
30	14	17.1		
36	16	21.8		
42	18	27.0		





09/30/11 FOR CONSTRUCTION

3														00/00/11 1 011 0	51401110011014
A	KKB CAD	JXB 07/	/15/11 60 PERCENT SUBMITTAL	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, CLIENT OR REPORT WAS PREPARED BY ME OR UNDER MY	07/15/1109/	/02/11	\perp		-	Project Office:	Scale	AS SHOWN		BISON 3 WIND PROJECT	BARR PROJECT No.
	CAD CAD	JXB 09/	/02/11 90 PERCENT SUBMITTAL /30/11 ISSUED FOR CONSTRUCTION	DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE CONSTRUCTION	ON	09/30/	11			BARR ENGINEERING CO. 4700 WEST 77TH STREET	Date	07/05/11		MORTON & OLIVER COUNTIES, NORTH DAKOTA	34/30-1006
3			,	LAWS OF THE STATE OF NORTH DAKOTA. PERMITTING	5.11				3ARR	MINNEAPOLIS, MN.	Drawn	KKB	minnesota power	MORTON & OLIVER COUNTIES, NORTH DAROTA	CLIENT PROJECT No.
ـــا دُ	-	_		SIGNATURE JOH E BY RECORD	+		+ + + -			55435-4803 Ph: 1-800-632-2277	Checked	JXB	AN/ALLETE COMPANY	EROSION CONTROL	
3			DE MOION DECORIETION	PRINTED NAME JOEL E. BAHMA RELEASE		BICIO	1 2	3 Cor	nneapolis, Minnesota	Fax: (952) 832-2601	Designed	CAD		SECTIONS AND DETAILS	DWG. No.
NO.	BY CHK.	APP. D	ATE REVISION DESCRIPTION	DATE 09/30/2011 REG. NO. 4904 TO/FOR		DATE RELI	EASED	Ph:	: 1-800-632-2277	www.barr.com	Approved	JXB	A WIND ENERGY INITIATIVE OF MINNESOTA POWER IN NORTH DAKOTA	SECTIONS AND DETAILS	C-05 0

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